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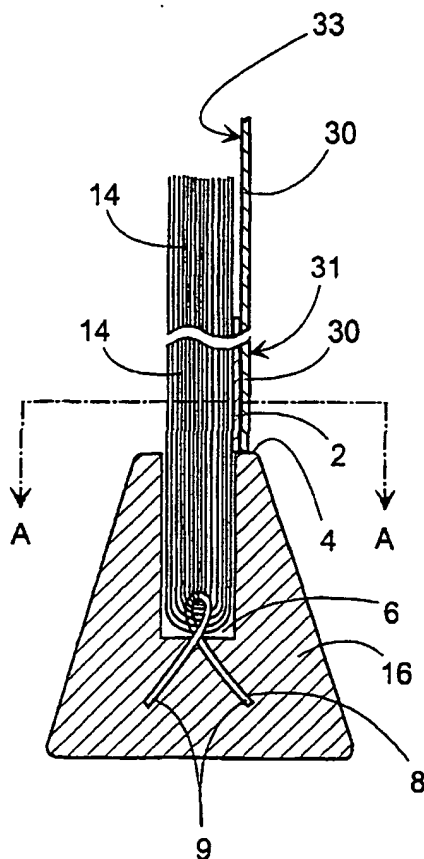
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(54) Title: SANDING STRIP



(57) Abstract: Sanding wheels for the processing of the surfaces of items normally comprise sanding strips (12) extending radially from a cylindrical core, and comprising bracing elements in the form of in-line brushes which on the one side (the front) are provided with a sanding means (30). The in-line brushes are normally mounted in a profile rail (16) with a U-shaped cavity together with the sanding means (30), and are typically secured by the use of a clamping rail or by fusible wire, whereby the sanding means and brush hair are moulded together in the U-shaped cavity. As a result of the anchoring of the sanding means in the profile rail (16) together with the brush hairs, the known sanding strips become inflexible. There is disclosed a sanding strip (12) whose brushes are placed in spaced bunches (15) in the profile rail (16), where the sanding means (30) are fastened directly to the front of the brushes outside the profile rail (16), preferably by means of extruded glue (2, 44) which penetrates into the spaces (17) between the brush bunches (15), whereby there is achieved an effective anchoring of the sanding means (30), and a sanding strip which is flexible to accommodate outwards bending in the sideways directions.



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Title: Sanding strip

The present invention concerns a sanding strip with sanding means for sanding wheels for mounting on a rotatable axle, where the sanding wheel consists of a core comprising undercut grooves in which the sanding strips are anchored by edge rails co-operating herewith, and in which there are secured line-formed bracing elements which extend radially from the core, preferably in the form of line-formed brushes, at least the one side surface of which supports the sanding means, the free ends of which extend outside the free ends of the brushes.

Such sanding wheels are used, for example, within the woodworking and furniture industries for the surface treatment/sanding of plane surfaces for producing smooth surfaces. Since the sanding means normally used in connection with sanding wheels is very flexible as a consequence of their small thickness, the function of the bracing elements/the brushes is to ensure a certain application pressure between the sanding means and the items which are to be sanded.

The bracing elements, in the following referred to as the brushes, thus have no actual cleaning effect in the form of a removal of sanding dust from the sanded surface during rotation of the sanding wheel. The sanding dust is removed by suction applied over the sanding area and, moreover, by subsequent processing of the sanded items.

The sanding wheels are produced in variable breadths and with variable diameters, and are mounted on rotatable axles on sanding machines which are arranged for this purpose. An example of this can be a sanding machine comprising a table with a feed unit for the feeding forward of the items, which are surface treated during their passage of the axles with the sanding brushes. The sanding machines may well

comprise up to several successively arranged rollers with sanding brushes, each provided with sanding material of different roughness. Out of regard for the processing of the edges of the items, the sanding rollers can be inclined in relation to the transport direction of the items, in that this results in a slight chamfering (moulding) of the side edges of the sanded items. Moreover, the inclined position of the rollers results in the constant removal of the sanding dust from the sanded surface. The said inclined position of the rollers in a sanding machine constitutes a considerable contribution towards the increase of the costs involved in the manufacture of a sanding machine, in that the inclined suspension of the rollers in relation to the transport direction of the items requires special bearings and drives for the axles on which the sanding wheels are mounted.

From DK 171364 there is known a sanding wheel where the sanding strips are secured to a cylindrical core for mounting on a rotatable, driven axle. The sanding strips are secured extending in a radial manner from the cylindrical core, and the sanding strips are secured in undercut grooves which extend parallel in the periphery of the core for accommodation of sanding strips arranged for this purpose, where the brushes are enclosed within a U-shaped nylon or aluminium rail, the external profile of which has a cross-section which co-operates with the cross-section of the undercut grooves. At the end of the core, the grooves are blocked by the edges of covers mounted on the ends of the core, whereby the sanding strips are held in position in the state of use, and the sanding strips can be replaced without having to dismount the core, in that only the one end cover is removed and the sanding strips to be replaced are drawn out of the undercut grooves at the end of the core, and new sanding strips are mounted.

It is important to note that the sanding strips which are used and disclosed in DK 171 364 are relatively stiff in the axial direction, in that they comprise brushes with brush hair which is firmly anchored in a profile of stiff material such as a U-shaped strip steel profile, the free ends of which are clamped together around the one end of the brush hairs. It should be noted that by this known technique the sanding means are secured to the sanding strips with an aluminium clamping rail. This is firmly clamped so that the sanding means are secured between the external side of the brush rail and the clamping rail. With this construction, it is achieved that it is not necessary to replace/discard the core each time the sanding strips need to be changed. However, the actual construction of the sanding strips is inexpedient, in that the sanding means are secured to the brush with said clamping rail, the result being that this type of sanding strip is very stiff in its axial direction.

In DK 171 364, however, other solutions are disclosed for the securing of the sanding means for the sanding strips, for example by placing the sanding means between the walls in the undercut grooves and the outer side of the clamping rail which co-operates with the groove, whereby the axial stiffness of the sanding strip is reduced in comparison with the above-mentioned embodiment where use is made of two clamping rails.

However, it is common to all known sanding strips with brushes that they involve line-formed brushes which, with or without an edge wire, are secured between the clamped-together webs of a U-shaped clamping rail, the result being that the sanding strip has an axial stiffness which makes it unsuitable for absorbing deviations in the axial direction. It must be noted that when there is mention here of deviations in the axial direction, this is to be understood

as axial deviations of the clamping rail in relation to a straight extent.

In DK 172548 B1 there is disclosed a method for the manufacture of a flexible sanding element where both the
5 brush hair and the sanding means are secured in a flexible U-shaped plastic profile, in the cavity of which the one side of the sanding means are placed together with supporting brush hair and heat-fusible plastic wire, where by heating above the melting temperature of the plastic there occurs a
10 bedding-in of the brushes and the sanding strips, so that they form an integral unit which ensures that brushes and/or sanding means are not released during use of rotating sanding or polishing tools of which the sanding elements form part.

There is hereby achieved a flexible sanding element
15 which is able to absorb deviations in the axial direction. However, the method concerning the manufacture of this type of sanding strip is not expedient, in that this requires the placing of both brush hair and the side edge of the sanding means in the U-shaped profile together with a heat-fusible
20 plastic wire, and it requires a heating of the plastic wire after the brush hair and the sanding means have been placed in the cavity of the U-shaped profile.

It is the object of the invention to provide a flexible sanding strip for use on sanding wheels having per-
25 ripheries which comprise undercut grooves for securing the sanding strip, where use is not made of clamping rails for securing the sanding means on the sanding strip, and which can be produced in a simple manner. Furthermore, the invention concerns a method for the manufacture of sanding strips
30 in endless webs, from which suitable lengths can be cut for mounting on the periphery of a sanding wheel with undercut grooves.

This is achieved with a sanding strip of the kind disclosed, which comprises a flexible brush profile rail with

an external profile for accommodation in undercut grooves in the external periphery of a cylindrical core, and where the brush hair which forms the line-formed brush is placed and secured in bunches in the respective holes in an in-line row of holes in the longitudinal direction of the brush profile rail, where the brushes are extending from the narrowest side of the brush profile rail, and in such a manner that along the brush profile rail a space is formed between the individual brush hair bunches in the longitudinal direction of the brush profile rail, which is characterised in that the sanding means are secured directly to at least one side of the brushes outside the brush profile rail, preferably by gluing.

By the securing of the sanding means directly on the brushes, the use of the clamping rail for the securing of the sanding means on the side of the brush rail is rendered superfluous, or alternatively the placing of the sanding means clamped in between the walls of the undercut grooves and the herewith co-operating external profile of the clamping rail, and hereby the working operations connected herewith.

It is decisive whether the sanding means can be adhered/secured in an adequate manner directly on the sides of the in-line placed bunches of brush hair that a small distance exists between each individual bunch of brush hairs. This space is filled out with glue along the gluing breadth, so that the glue flows in between the individual hair bunches to the rear edge of the row of holes on the side opposite to that on which the glue is applied, on which after application of the glue the sanding means are placed with the one side edge extending parallel with the narrowest side edge of the PE brush rail. With the hardening of the glue, there thus arises a form of locking/anchoring of the sanding means by the hardened glue mass which constitutes an element which, in the gluing area, substantially surrounds and adheres to the

individual brush bunches. Moreover, the sanding means are naturally also adhered to the outermost brush hair of the individual brush bunches in the in-line row of brushes. It must be emphasised, however, that the gluing in between the outermost brush hairs and the sanding means will not be sufficient in itself to secure the sanding means on the sanding strips during use. The sanding means will simply become loose and flake off after a relatively short period of use, simply because the outermost brushes will break due to the mechanical load which consists of both axial traction and transverse loading in the outermost layer of brush hair when the sanding strips on the rotating sanding wheel are brought into contact with the item to be sanded/polished.

Moreover, with the use of a PE brush profile rail which co-operates with the undercut grooves in the external periphery of the cylindrical core, it becomes possible to be able to effect a replacement of individual sanding strips on the sanding wheel in the same way as with the known sanding wheels. Here, for example, every alternate sanding strip could be replaced at regular intervals with the object of achieving a uniform surface on the items processed by the sanding wheels.

Without renouncing other methods of securing, it can be mentioned that a preferred securing method consists of gluing directly on the brushes.

Moreover, without renouncing the use of other types of glue, it can be mentioned that a preferred glue for the securing of the sanding means to the side of the brushes consists of hot-melt glue.

A second preferred method for the securing of the sanding means directly on the brushes can consist of sewing, where the sanding means are sewn onto the brushes in an area in the immediate vicinity of the brush rail.

An additional preferred method for the securing of the sanding means directly on the brushes can be exercised by means of double-sided adhesive tape, which is applied to the brushes in an area in the immediate vicinity of the brush
5 rail.

It must be mentioned that the flexible brush profile rail can with advantage consist of a flexible PE, whereby it is achieved that the line-formed brush becomes pliable in the axial direction.

10 It must be mentioned that the undercut grooves in the cylindrical core, and the PE profile rails co-operating herewith, can with advantage have a dove-tailed cross-section.

The advantage herewith is that with rotation of the
15 core/sanding wheel, as a result of the centrifugal force the PE profile rail will be clamped together around the bracing elements (the brush hairs), which supports the sanding materials on the sanding brush.

It must further be mentioned that the bunches of
20 brush hairs which are secured in the row of holes in the PE brush profile rail can with advantage be secured in the bottom of the holes by means of a U-shaped staple, the legs of which inserted in the PE profile rail are staggered in parallel and cross each other, so that the hairs in the brush
25 bunch are anchored in their centre, with their free ends extending straight up over the PE profile rail on both sides of the staple. It must be mentioned that the brush hairs can also be secured in the PE profile rail by gluing.

The sanding strip according to the invention is
30 able to be produced in a considerably easier manner than the hitherto-known sanding strips comprising clamping rails, in that the latter are necessarily produced individually in lengths determined beforehand.

With the sanding strip according to the invention, it will be possible to produce sanding strips in rolled-up webs, which at the place of use can subsequently be cut up into the lengths desired by the user, and inserted in the undercut grooves in the periphery of the core.

A method for the manufacture of a rolled-up web of sanding strip can be that from a supply of line-formed brushes provided with edge rails with a cross-sectional profile corresponding to a given undercut groove in the periphery of a sanding roller, supplied in a length by transport means, where there is extruded at least one string of a suitable hot-melt glue in a gluing area near the edge of the profile rail from which the brush hairs are extending, so that the glue penetrates into the spaces between the brush bunches in the longitudinal direction of the brush profile rail, after which via feeding means and pressure rollers a layer of sanding means from a supply is applied to the relevant brush side which is pressed against in the gluing area, after which the brush with the glued-on layer of sanding means is fed further for rolling-up, or alternatively is cut up into predetermined lengths.

With the sanding strip and the method for the manufacture of same, there can be envisaged a completely other type of sanding wheel, where the user purchases the sanding strips in rolls or by the metre, and thereafter cuts the sanding strips up into suitable lengths and carries out the work of mounting the sanding strips. The sanding strip according to the invention will thus be considerably easier to pack and despatch than sanding strips in long lengths.

The already discussed, known construction of the swallow-tail formed rail profile which firmly secures brushes and sanding means so that together they form a sanding strip, results in a relatively stiff rail profile with a relatively limited flexibility, but this type of sanding strip has found

a certain widespread use as a result of the flexibility in the replacement of the individual sanding strips on the core, which can be effected, for example, so that each alternate sanding strip is replaced at a time, whereby a great uniformity is achieved in the surface processing of the surfaces treated by the sanding brush.

The presence of the relatively stiff clamping rail for securing the sanding means on the sanding strips makes it necessary, however, that the dove-tailed groove in the core must be straight and oriented in parallel with the centre axis of the core, which means that the sanding rollers must be inclined in order to achieve the desired chamfering of the edges of the sanded item.

The sanding strips according to the present invention open the possibility of changing this situation, in that the securing of the sanding means directly on the brush sides by means of a suitable glue results in the sanding strip being able to absorb deviations in the axial direction, at the same time that this will essentially maintain the resilience and lateral pliancy which characterises the brush and the PE brush profile rail, as opposed to the known sanding strips with dove-tail shaped edge rails with clamping rails for securing the sanding means.

With the invention, the possibility has thus been realised of being able to avoid the inexpedient inclined positioning of a sanding machine's sanding rollers of the disclosed kind, at the same time that an edge processing of the surface of the treated item is effected by configuring the undercut grooves in the periphery of the core so that these extend in a spiral or helical manner in relation to the axis of the core, and inserting the flexible sanding strips according to the invention into these grooves.

There is hereby achieved the same effect as if the sanding rollers were suspended in an inclined manner in rela-

tion to the transport direction of the items. Here, it is merely the sanding strip itself which is inclined in relation to the core, instead of the sanding strips being placed extending parallel with the centre axis of the core, and the
5 centre axis being inclined in relation to the transport direction of the items.

In practice, this means that by use of the sanding strips and the spirally-formed undercut grooves in the periphery of the core, it will be possible to dispense with the
10 inclined positioning of the rollers which increases the construction costs involved in the building of new sanding machines, while at the same time a chamfer sanding of the edges of the items can be effected. Moreover, it will be possible for older sanding machines provided with sanding wheels ac-
15 cording to the invention to be able to effect the desired sanding, where a chamfering of the edges of the sanded items is also achieved.

It must also be mentioned that it is preferred that the undercut grooves and the brush profile rails have a co-
20 operating dove-tail shaped cross-section.

In the following, the invention will be explained in more detail with reference to the drawing, where

fig. 1 shows a sanding brush according to the known technique seen from above, with undercut grooves for the ac-
25 commodation and securing of sanding strips, the edge rails of which have a profile co-operating with the undercut grooves,

fig. 2 is a side view of a sanding strip according to the invention with hair side upwards,

fig. 3 is a side view of the sanding strip in fig.
30 2 with the sanding means upwards,

fig. 4 shows a section through a sanding strip seen from above along the line A-A in fig. 3,

fig. 5 shows a section seen from the side along the line B-B in fig. 4,

fig. 6 shows a section along the line C-C in fig. 4,

fig. 7 shows the principle involved in the manufacture of sanding strips in endless webs according to the invention,

fig. 8 shows a perspective view of a core with spirally-formed, dove-tail shaped grooves according to the invention,

fig. 9 shows a detail side-section view of a sanding wheel with end cover mounted, and

fig. 10 shows a perspective view of a sanding brush with sanding strip placed on the core in a spirally-extending manner according to the invention.

Fig. 1 shows a plan view of a sanding wheel 10 comprising sanding strips 12 according to the invention. As will appear from the figure, the sanding strips' brushes 14 are secured in a brush rail 16 which has a cross-section which fits in an undercut groove, in the shown embodiment a dove-tail cross-section, which when the sanding strips are mounted is accommodated in grooves 18 co-operating herewith in the external periphery of a cylindrical core 20 with a circular cross-section, in that said grooves 18 are oriented parallel with the centre axis 22 of the core, and extend for the whole length of the core. In its ends, the cylindrical core 20 has covers 24, the centres of which are provided with through-going holes 24 for the accommodation of a not-shown drive shaft. The covers are provided with a recess, so that the edge of the cover extends parallel with the edge 26 of the core, and such that when the sanding wheel is mounted, the grooves 18 are blocked, so that the sanding 12 strips are secured in their positions, extending radially from the sanding wheel.

Fig. 2 shows a side view of a sanding strip 12 according to the present invention

with hair side 28 upwards. As will be seen, the brush hairs 14 are secured in a groove in a U-shaped plastic rail 16, which as shown in fig. 2 has a dove-tail shaped external cross-section. In the background is seen the rear of a sand-
5 ing means 30 which is glued with hot-melt glue on the opposite side of the brushes 14. The sanding means 30 in the shown example embodiment consists of a length of segmented emery cloth with a back 33 of canvas and a front 31 to which a relevant sanding material is applied, cf. fig. 3. The re-
10 sult of the segmenting is that the sanding strip becomes more flexible, in that the individual segments 34 can move independently.

As will appear from fig. 3, the sanding means 30 is glued along the edge 4 of the brush rail 16, and no securing
15 means are used other than the already-mentioned hot-melt glue.

In fig. 4, which is a sectional view through the sanding strip according to the invention along the line A-A in fig. 3, it is seen how hardened hot-melt glue 2 has ad-
20 hered respectively to the canvas on the back 33 of the sanding means 30 and the sides of the bunch-formed brush hair 14, so that the glue mass substantially surrounds these and has adhered to their surfaces. The hardened mass of hot-melt glue 2, together with the bunches of brush hair 14 along the edge
25 4 of the PE rail 16 and the emery cloth 30, thus constitute an integrated mass, the extent of which in the longitudinal direction of the brush hairs is indicated in fig. 6.

In fig. 5, which is a longitudinal section along the line B-B in fig. 4, it is shown how the line-formed
30 brushes 14 of the sanding strip are placed in bunches 15 in holes 6 in the PE profile rail 16, and how the respective bunches 15 of brushes 14 are anchored in the bottom of the holes 6 by means of U-shaped staples 8, the legs 9 of which cross each other and are displaced in parallel as is shown in

fig. 6. Between the respective bunches 15 of brushes, in an area nearest to the PE profile rail 16, there is a space 17, and it is this space which is completely or partly filled out by the glue 2 which is used to secure the sanding means to the sanding strip, so that as shown in fig. 4, the bunches 15 of brush hairs 14 are almost completely surrounded by hardened glue, which thus constitutes a coherent mass which adheres to the back of the sanding means 30, which typically comprises a strong canvas, so-called emery cloth.

Fig. 7 shows the principle used in the procedure for the manufacture of a continuous web 36 of sanding strip. The principle involves a rolled-up supply 38 of brushes in an edge rail 16 with an external dove-tailed profile, which by feed rollers 40 is fed past a glue extruder 42 for hot-melt glue 44, which is extruded in a string near the edge rail 16, after which via a second set of feed rollers 46 the glue is provided with a web of sanding means 30 from a supply 48, after which the sanding means 30 is pressed against the gluing area by a number of pressure rollers 50 and a plate 52. The continuous web of sanding means 36 is finally fed via a one or more feed rollers to a rolled-up supply 56 of finished sanding strip.

Fig. 8 shows a cylindrical core 20 with dove-tailed grooves 18 in the external periphery 26 of the core. As indicated, the grooves 18 are formed in a helical or spiral manner, so that by movement along a groove in the longitudinal direction of the core from the one end to the other, the centres of the grooves are mutually, rotationally displaced. The figure also shows a sanding strip 12 being introduced from the one end of the core 20, while at the same time the used sanding strip 12' in the same dove-tailed groove is being displaced out of the opposite end of the core.

In fig. 9 it is shown how an annular edge 60 on the end cover 24 of the core blocks the ends of the dove-tailed

grooves 18, so that the dove-tailed rails 16 with sanding strips 12 are secured in the grooves 18 between the covers.

Fig. 10 shows a finished sanding wheel/roller where the core 20 is fully mounted with sanding strips 12 according to the invention. The inclined position of the sanding strips 12 makes it possible for the sanding rollers/brushes to be mounted in a sanding machine at right-angles to the transport direction of the items, in that due to the inclined position of the sanding strips in relation to the transport direction of the items, the sanding of an item which is fed under and in contact with the sanding strips 12 will result in a chamfering (slight rounding-off) of the edges of the sanded item, which with the use of the known sanding wheels would otherwise be effected only when the roller is mounted in an inclined position in relation to the transport direction of the item.

With the invention there is thus provided a sanding strip 12 which is able to be manufactured in a considerably easier manner than the known sanding strips, where the sanding means is secured directly to the bracing elements/the brushes, so that the sanding strip retains deflection characteristics which are sufficient to make it possible, with the use of an assembly technique with undercut grooves (dove-tail assembly), which in itself is known, to produce sanding wheels with radially-protruding sanding strips which extend in a spiral manner, which means that the construction of sanding machines can take place without the machine's driving shafts having to be suspended in an inclined manner, which is expensive. Moreover, the individual sanding strips can be replaced as required, all depending on the degree to which these are worn.

It must be mentioned that the invention is particularly suitable especially in connection with older sanding machines with the normal, inclined shafts, where by using the

sanding strips and sanding wheels/rollers according to the invention it is now possible to carry out the sanding of items and at the same time effect a chamfering of the edges of the items.

C L A I M S

1. Sanding strip (12) with sanding means (30) comprising a front (31) and a back (33), for sanding wheels (10) for mounting on a rotatable shaft, where the sanding wheel consists of a substantially cylindrical core (20) having a periphery in which there are undercut grooves (18) in which the sanding strips (12) are anchored by profiled edge rails (16) co-operating herewith, in which radially-protruding, line-formed bracing elements are secured, preferably in the form of line-formed brushes (14), at least the one side surface of which supports the back of the sanding means (30), whose free ends extend outside the free ends of the brushes where the edge rail is flexible, and where the brush hairs which form the line-formed brush are arranged and secured in bunches (15) in the holes (6) in an in-line row of holes in the longitudinal direction of the profiled edge rail, where the brushes (14) are extending from the narrowest side (4) of this, and so that along the production direction of the profiled edge rail (16) a space (17) is formed between the individual brush hair bunches (15) in the longitudinal direction of the brush profile rail; c h a r a c t e r i s e d in that the sanding means (30) are fastened by securing means (2) with the back side (33) directly on at least one of the sides of the in-line row of brushes (14) outside the profiles edge rail (16), so that the side of the sanding means (30) facing towards the profiled edge rail (16) is substantially in contact with the upper edge of the narrowest side (4) of the profiled edge rail (16).
2. Sanding strip (12) according to claim 1, c h a r a c t e r i s e d in that the securing means (2) for fastening the sanding means (30) to the sides of the brushes (14) consist of glue extruded respectively on the side of the brushes facing towards the back (33) of the sanding means

(30), and in between the spaces (17) between the respective bunches (15) of brush hairs.

3. Sanding strip (12) according to claim 2, c h a r -
a c t e r i s e d in that the glue for fastening the sanding
5 means (30) to the side of the brush consists of hot-melt
glue.

4. Sanding strip (12) and sanding wheel (10) according
to claim 1, c h a r a c t e r i s e d in that the sanding
means (30) are fastened directly on the brushes (14) by sew-
10 ing with a relevant thread in an area in the immediate vicin-
ity of the narrowest edge (4) of the profiled edge rail (16),
preferably so that the sewing thread passes around the re-
spective brush bunches (15) in the profiled edge rail (16).

5. Sanding strip according to any of the claims 1-4,
15 c h a r a c t e r i s e d in that the profiled edge rail
(16) consists of a flexible plastic material, preferably PE.

6. Sanding strip (12) according to any of the claims
1-5, c h a r a c t e r i s e d in that the undercut grooves
(18) in the cylindrical core (20) and the profiles edge rails
20 (16) co-operating herewith have a dove-tailed cross-section.

7. Sanding strip (12) according to any of the claims
1-6, c h a r a c t e r i s e d in that it is provided as a
rolled-up web (36) of sanding strip.

8. Method for the manufacture of a rolled-up web of
25 sanding strip (36), c h a r a c t e r i s e d in that a sup-
ply of in-line brushes (38), comprising a flexible, profiled
edge rail (16) with a cross-section corresponding to and for
accommodation in a corresponding undercut groove (18) in the
periphery of a substantially cylindrical core, and where said
30 edge rail (16) comprises brushes (14) extending from the nar-
rowest side (4), said brushes being disposed in bunches (15)
in holes (6) arranged in a row in said narrowest side (4) of
the edge rail (16), so that between each bunch (15) along the
side (4) there is a space (17), is fed in a web by feeding

means (40, 52), where there is extruded at least one string (2) of a suitable hot-melt glue in a gluing area on the brush hairs near the side (4) of the edge rail (16), and in the spaces (17) in between the individual brush bunches (15), after which via feeding means (46) and pressure rollers (50), a layer of sanding means (30) from a supply (48) is applied on the relevant side of the brush pressed against in the gluing area, after which the now finished sanding strip (36) comprising the in-line brush with the applied web of sanding means (30) is fed further by feeding means (54) for rolling-up into a supply (56), or is alternatively cut up into predetermined lengths.

9. Sanding wheel (10) according to any of the claims 1-8, characterised in that the undercut grooves (18) in the periphery of the core extend in a spiral or helical manner in relation to the centre axis (22) of the core, and in that sanding strips (12) according to any of the claims 1-6 are inserted in said grooves.

1/6

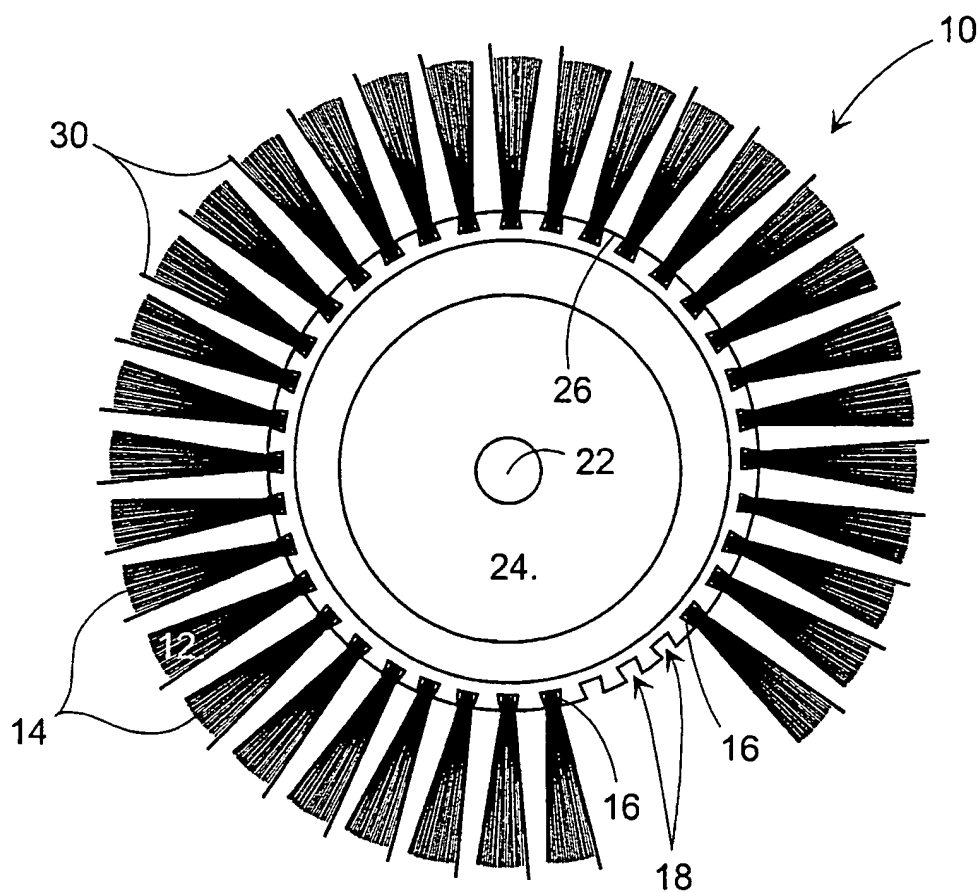


Fig.1

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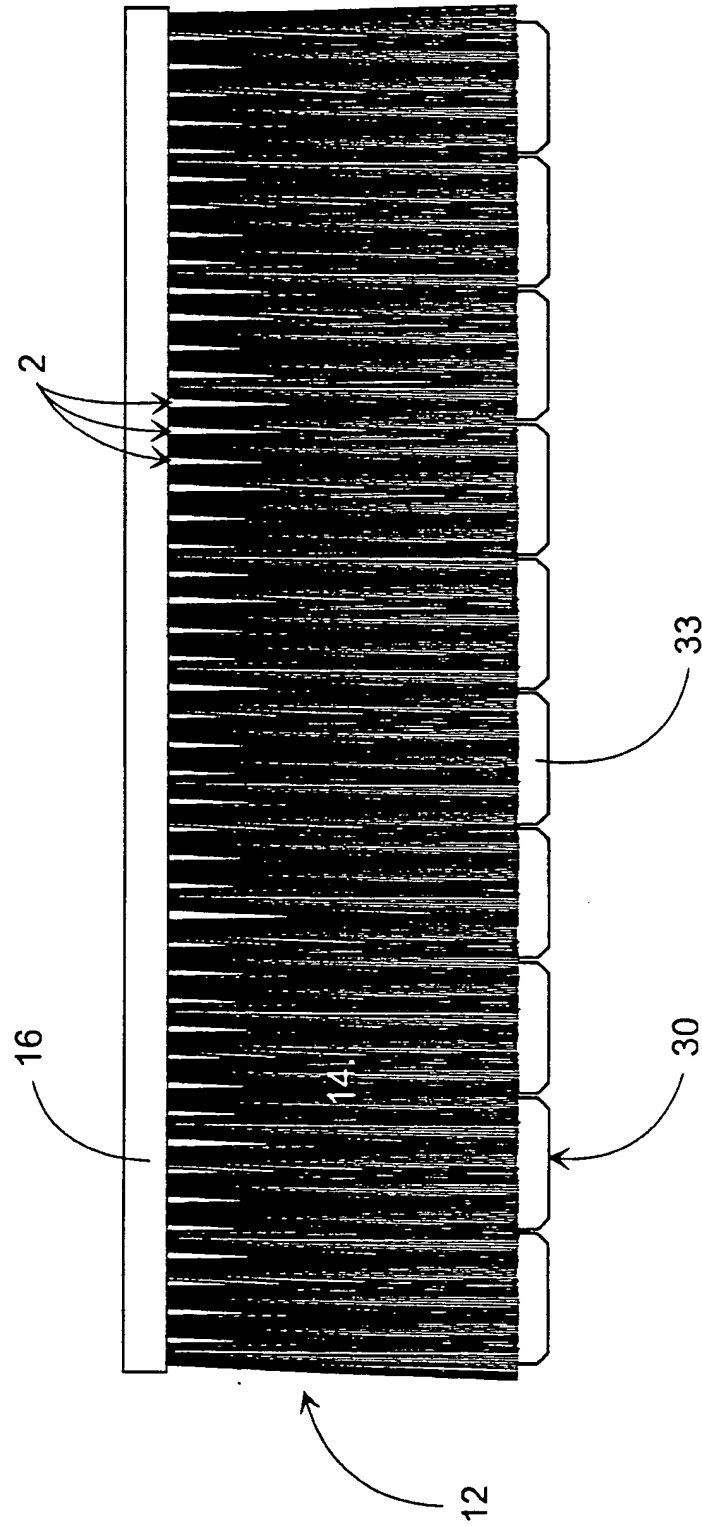


Fig. 2

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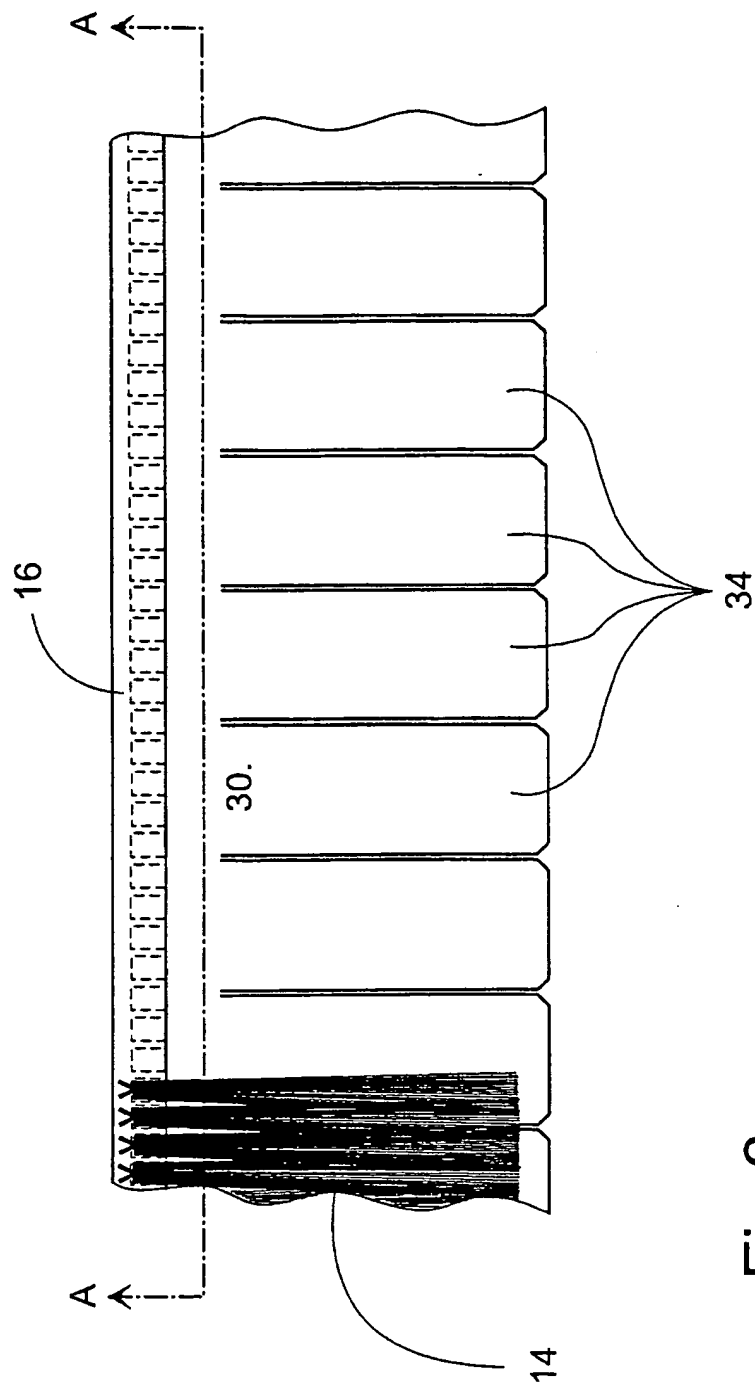
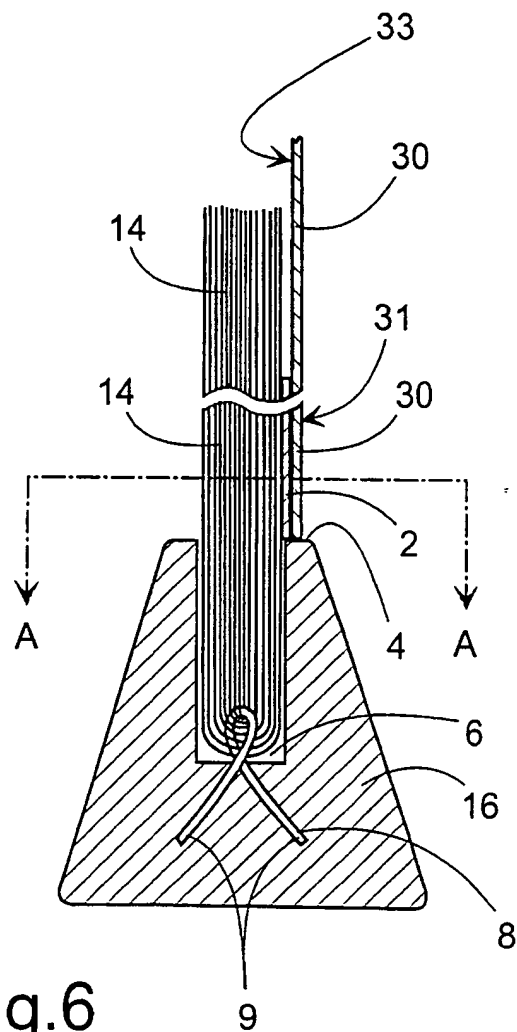
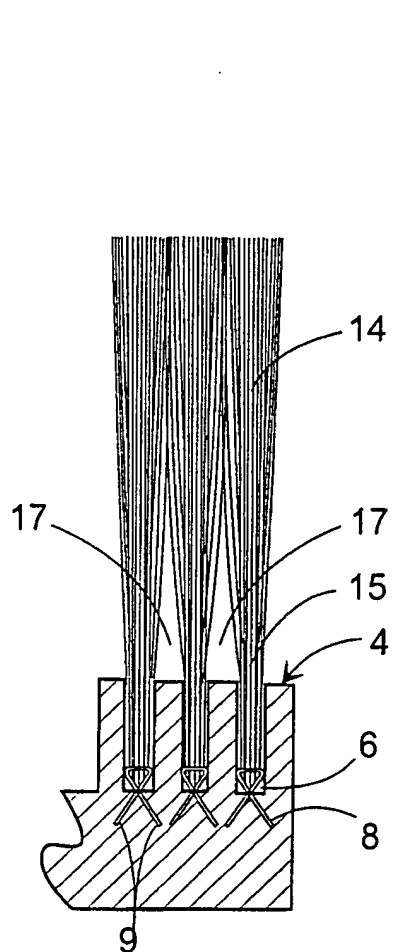
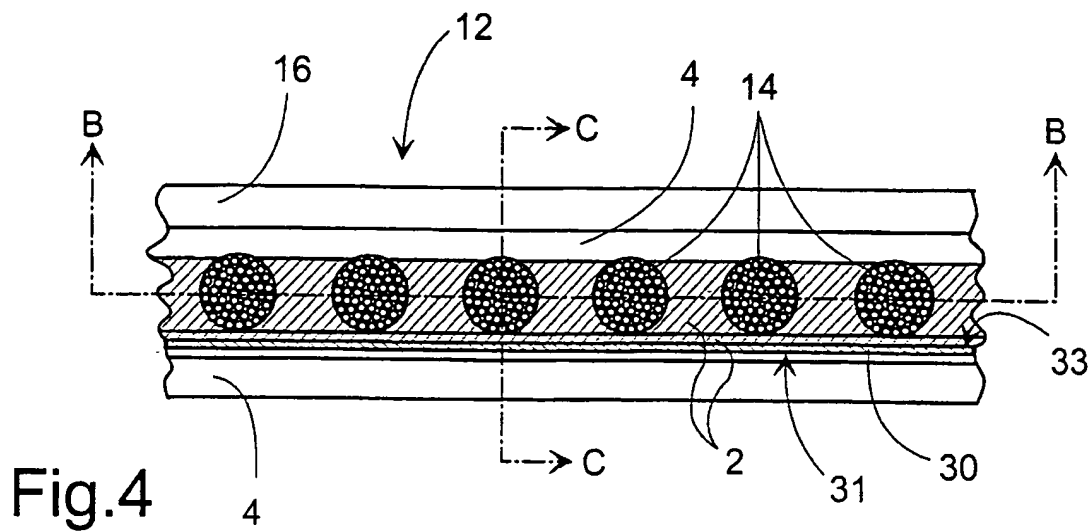


Fig. 3

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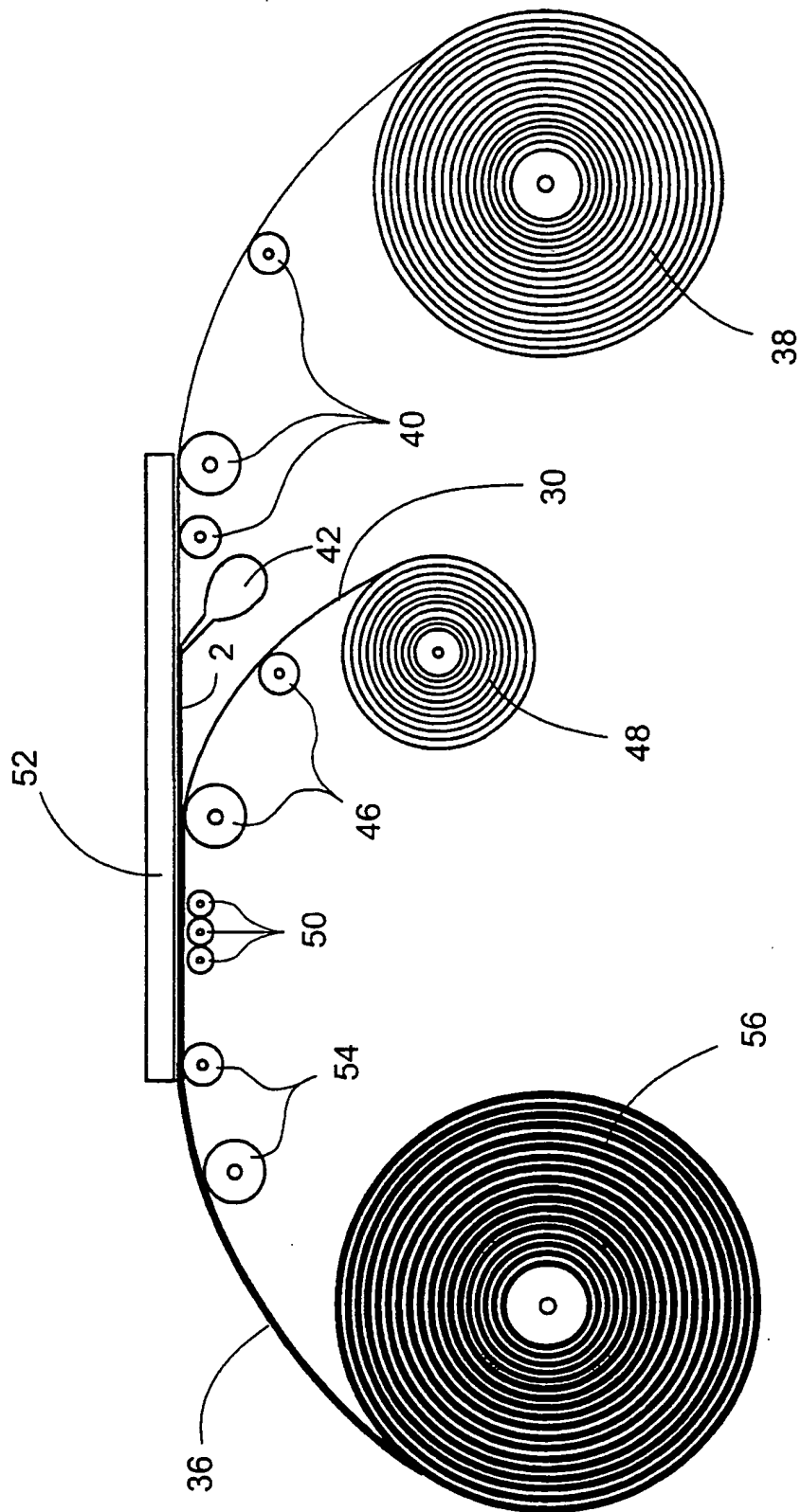


Fig.7

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Fig.8

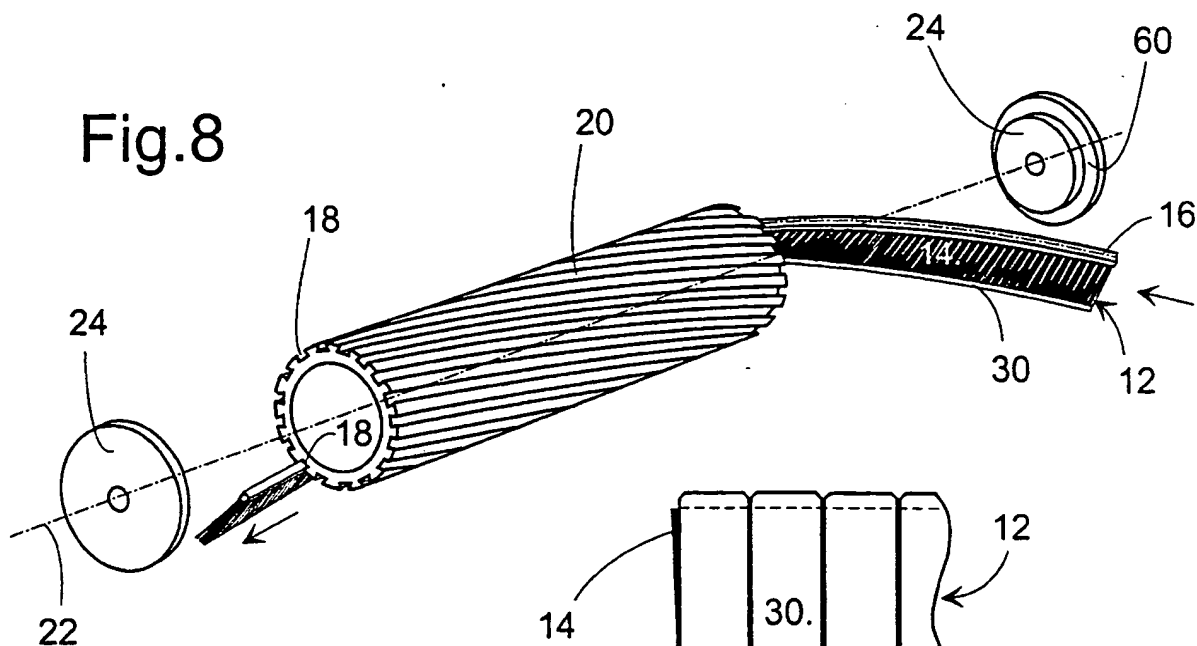
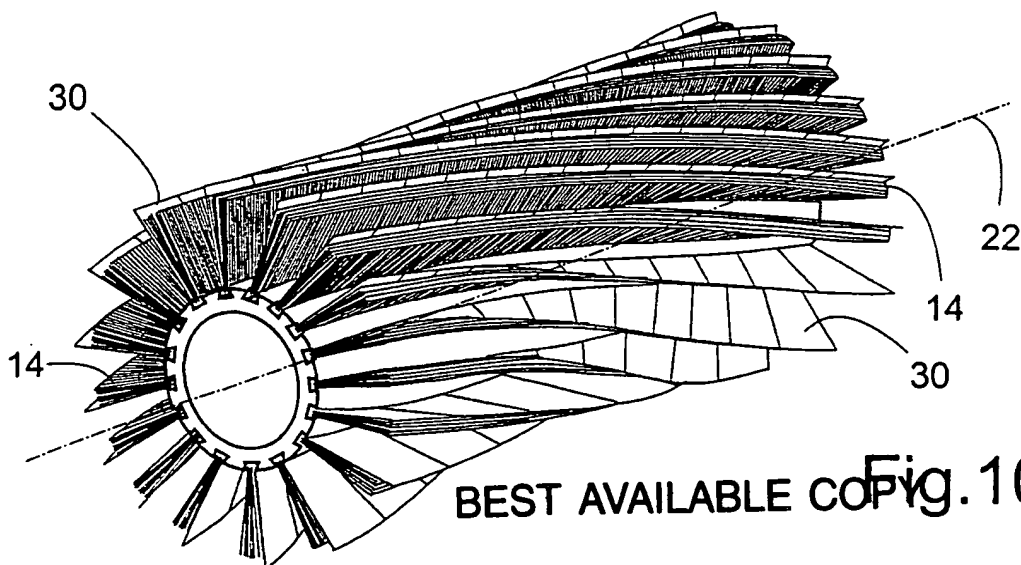
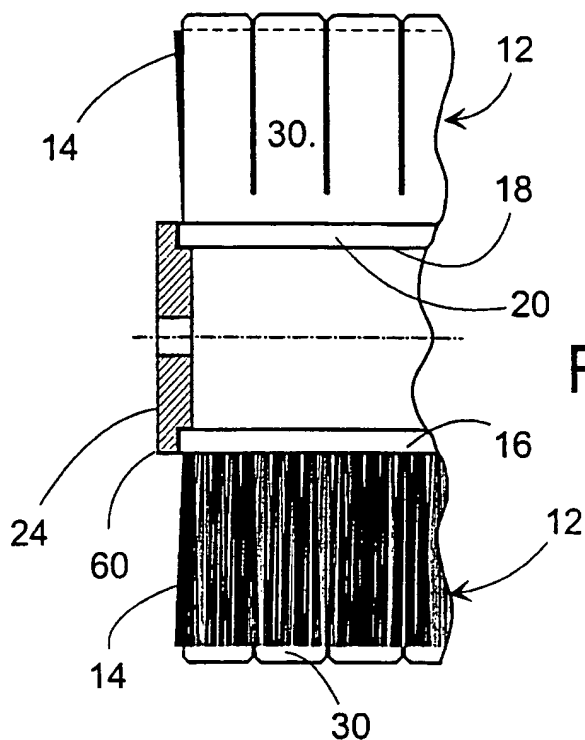


Fig.9



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